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Applicants: Xiang Zhu, Ming Qu, & Yongmin Ge
 Assignee: Lattice Semiconductor Corporation
 Title: Charge Pump for a Low-Voltage Wide-Tuning Range Phase-Locked Loop
 Serial No.: 10/817,215 Filing Date: April 2, 2004
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Irvine, California
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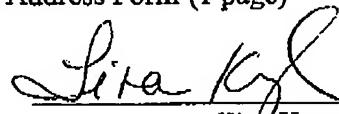
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